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Docket No.: 1855.1070-004 Novel Antibodies and Ligands... Inventors: Michael J. Briskin *et al*.

cagcagccag tggccaggtc gtacctggtg cttctaccat gctcatcctc ctacaaccag gatatccctg gctcatatgt ctgggaatac cagcatgttc cctggtgttt actggggttc ggctgtgttc atacctgagg gaacttctgg gtttcaatga ccctggctga cccagatgac taatcaaaac tcatatccat aatgggtgtt ccaccaaggc tcatctgggt atctcgacaa tcctggtgat gcagcacaca aggccatcgc tggaggccac tgccctgcat acacgtccat tctcacatca agtttcgaaa gtgaacctac accagcttgc tattcagtca aaggtctttc gttcttgcca gggttcagca ctggtgctgg ggcatccatg attaacttct gtggttaagg aatgtcttta aagatcatct aagttcatcc tcccacaatg atggtgacag gtcagcctga taccttgggg tttttctgcc tgaagactat ggggaactct ggcctatgca tttcattgta tatctatggc ttccactgtg gattgtctgc gcagttcagc tgtgttcctg catctacact gggcaaggtc cagatctcta caacctcatg ctacaccatc ctatgccttt ttgcctccct atgattacca aggacattgg attccaagac gcctgacgga tgcccttctg gcctactggg ctgtggatcg tgccccaaat tccagaagca agatgccctt ccagctttca aagacttcct gtggtctggt ggatgacctg acgaggcaat tgctcaccat accetgtget atggcagagc ttettgecae tctgaggaca aagttgcaga gtctgcactc acctgcatca caagccaaga ggttaccatg ctgctgaccc tatgccatga gcctgcctta aaacttgtga gaggagcatc gtgtttgtct atgtgcaaga ctggtttcct gctggaggct 1021 196 601 301 361 421 481 541 661 721 781 181

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## FIG. 4A

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## FIG. 4B

AGRATGTGGACATGCTTACTGGGGGATTGTGGCCCCCCCAGAGGCATTTACTTCCTACCAG E C G H A Y S G I V A H Q K H L L P T S 120  901  CCCCCCAACTTCTCAGGCCTCAGAGGGGGCATCTTCAGATATCCACACCCCTGCCCAGAT P P T S Q A S E G A S S D I H T P A Q M 140  961  GCTCCTGTCCACCTTGCAGTCCACTCAGCGCCCCACCCTCCCAGATAGAT	8	41																					
901  CCCCCCAACTTCTCAGGCCTCAGAGGGGGGCATCTTCAGATATCCACACCCCTGCCCAGAT PPTSQASEGASSSCCCCACCTCCCAGTAGATCACCCCTGCCCAGAT PPTTSQASEGASSSDIHTPAQM 140  961  GCTCCTGTCCACCTTGCAGTCCACTCAGCGCCCCACCCTCCCAGTAGGATCACTGTCCTC LLSTLQSTQRPTLPVGSLSSSSSSSSSSSSSSSSCCCACCCTCCCAGTAGGATCACTGTCCTC LLSTLQSTQRPTLPVGSLSSSSSSSSSSSSSSSSCCACACTCTGGC DKELTRFNETTILTAGACTGGGGCCCACCTTCGGGGCCACAGTCTGGC DKELTRFNETTILTAGATCTGGGGCCCACAGTCTGGC VGPEAGGCTGGGGGAGAACCAGAAGCAGCCGGAAAAAAAATGCTGGTCCCACAGC VGPEAAGCATCAGCCACAGTGCCGGTCCTGTGCCTCCTGGCCATCATCTTCATCCTCACAGC RTSATVPVLCLLAIIFFILTA 220  1141  CAGGACATCAGCCACAGTGCCGGTCCTGTGCCTCCTGGCCATCATCTTCATCCTCACAGC RTSATVPVLCKRRRRRRRGGGGGGAAAAAAAATGCTGGTCCTCCAAGAAAAAAAAAA		NGI	א תיים	anco c	''''	ا تاريار	الد المادية الم	( CITI'	,,,,,,,,	~~ » r	mma		~~~	31 C) C'		× ~ ~	x mm	m > ~					
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GCTCCTGTCCACCTTGCAGTCCACTCAGCGCCCCACCCTCCCAGTAGGATCACTGTCCTC  L L S T L Q S T Q R P T L P V G S L S S 160  1021  GGACAAAGAGCTCACTCGTCCCAATGAAACCACCATTCACACTGCGGGCCACAGTCTGGC D K E L T R P N E T T I H T A G H S L A 180  1081  AGTTGGGCCTGAGGCTGGGGAGAACCAGAAGCAGCCGGAAAAAAATGCTGGTCCCACAGC V G P E A G E N Q K Q P E K N A G P T A 200  1141  CAGGACATCAGCCACAGTGCCGGTCCTGTGCCTCCTGGCCATCATCTTCATCCTCACCGC R T S A T V P V L C L L A I I F I L T A 220  1201  AGCCCTTTCCTATGTGCTGTGCAAGAGGAGGAGGGGGGGAGTCACCGCAGTCCTCTCCAGA A L S Y V L C K R R R G Q S P Q S S P D 240  1261  TCTGCCGGTTCATTATATACCTGTGGCACCTGACTCTTAATACCTGAGCCAAGAATGGAAG L P V H Y I P V A P D S N T * 254  1321  CCTCCCACCTTGGCCTCTGAAGGTGCGAGGAGGAGGAGTCACCTCACCACATCCAGCCT 1441		~ ~																					
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GGACAAAGAGCTCACTCGTCCCAATGAAACCACCATTCACACTGCGGGCCACAGTCTGGC D K E L T R P N E T T I H T A G H S L A 180  1081  AGTTGGGCCTGAGGCTGGGGAGAACCAGAAGCAGCCGGAAAAAAATGCTGGTCCCACAGC V G P E A G E N Q K Q P E K N A G P T A 200  1141  CAGGACATCAGCCACAGTGCCGGTCCTGTGCCTCCTGGCCATCATCTTCATCCTCACCGC R T S A T V P V L C L L A I I F I L T A 220  1201  AGCCCTTTCCTATGTGCTGTGCAAGAGGAGGAGGGGGGCAGTCACCGCAGTCCTCTCCAGA A L S Y V L C K R R R G Q S P Q S S P D 240  1261  TCTGCCGGTTCATTATATACCTGTGGCACCTGACTCTAATACCTGAGCCAAGAATGGAAG L P V H Y I P V A P D S N T *  254  1321  CTTGTGAGGAGAGGGGGGCCTCTGAAGGTGCCAGGTCACCTGAGTCAAGTGAT 1381  CCTCCCCCCCCCCTTGGCCTCTGAAGGTGCGAGGAGGGGTCACCCACACTCCACCACTCCTCAGCT 1441																							
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1201  AGC CTTTC TATATATATACTTG GCACTGACTC TATATACTTG AGG AGG TTTATAGGCGTCACTGACTCACTGATT AGG AGG AGG ATTATAGGCGTC AGG CTTTTC TATATAGGCCTT AGG CTTTTT AGG CTTTT A	114	<b>4 1.</b>																					
1201  AGC CTTTC TATATATATACTTG GCACTGACTC TATATACTTG AGG AGG TTTATAGGCGTCACTGACTCACTGATT AGG AGG AGG ATTATAGGCGTC AGG CTTTTC TATATAGGCCTT AGG CTTTTT AGG CTTTT A		CAG	GAC	ATC	AGC	CAC	AGT	- GCC	GGT	יככיי	GTG	· CCT	יככידי	GGC	CAT	CAT	الماتلات	آب س لات	الماليات.	~ A	امان	<u> </u>	
AGCCCTTCCTATGTGCTGCAAGAGGGGGGGGGGGGGGGG																							220
AGCCCTTCCTATGTGCTGCAAGAGGGGGGGGGGGGGGGG																							
1261  TCTGCCGGTTCATTATACCTGTGCCCCAGGCTGTTATGGAACTCCTGAGCCAAGTGAT  1321  CCTCCCACCTGCCCTGCCTCTGAAGGTGCGAGGTTTATAGGCTCACCTCACCTCACCTCAGCCTAAGTGAT  1381  CCTCCCACCTGCCCTGCCTCTGAAGGTGCGAGGTTTATAGGCTCACCTCACCTCAGCCT  1441	120	01																					
1261  TCTGCCGGTTCATTATACCTGTGCCCCAGGCTGTTATGGAACTCCTGAGCCAAGTGAT  1321  CCTCCCACCTGCCCTGCCTCTGAAGGTGCGAGGTTTATAGGCTCACCTCACCTCACCTCAGCCTAAGTGAT  1381  CCTCCCACCTGCCCTGCCTCTGAAGGTGCGAGGTTTATAGGCTCACCTCACCTCAGCCT  1441		AGC	CCT	TTC	· CTA	TGT	GCT	GTG	CAA	GAG	GAG	· Gag	GGG	GCA	3TC	ACC	ጉ ጉ	ئاسات	ساطنات	امالان	ግ ነኔ ር	212	
TCTGCCGGTTCATTATATACCTGTGGCACCTGACTCTAATACCTGAGCCAAGAATGGAAG  L P V H Y I P V A P D S N T *  254  1321  CTTGTGAGGAGACGGACTCTATGTTGCCCAGGCTGTTATGGAACTCCTGAGTCAAGTGAT  1381  CCTCCCACCTTGGCCTCTGAAGGTGCGAGGATTATAGGCGTCACCTACCACATCCAGCCT  1441																							240
TCTGCCGGTTCATTATATACCTGTGGCACCTGACTCTAATACCTGAGCCAAGAATGGAAG  L P V H Y I P V A P D S N T *  254  1321  CTTGTGAGGAGACGGACTCTATGTTGCCCAGGCTGTTATGGAACTCCTGAGTCAAGTGAT  1381  CCTCCCACCTTGGCCTCTGAAGGTGCGAGGATTATAGGCGTCACCTACCACATCCAGCCT  1441																							
L P V H Y I P V A P D S N T *  254  1321  CTTGTGAGGAGACGGACTCTATGTTGCCCAGGCTGTTATGGAACTCCTGAGTCAAGTGAT  1381  CCTCCCACCTTGGCCTCTGAAGGTGCGAGGATTATAGGCGTCACCTACCACATCCAGCCT  1441	126	51																					
L P V H Y I P V A P D S N T *  254  1321  CTTGTGAGGAGACGGACTCTATGTTGCCCAGGCTGTTATGGAACTCCTGAGTCAAGTGAT  1381  CCTCCCACCTTGGCCTCTGAAGGTGCGAGGATTATAGGCGTCACCTACCACATCCAGCCT  1441		ىلىرىلى	GCC	ىرىك	TCA	⊄بابیات	ጥልጥ:	• አርሮ	ייניטים	CCC	ል ርጉር	TGA:	مامات	ምልልባ	• የልጥ	נבותיי	מכרי	· ·	מ מב	mC.C	י איב	ic.	
1321 CTTGTGAGGAGACGGACTCTATGTTGCCCAGGCTGTTATGGAACTCCTGAGTCAAGTGAT 1381 CCTCCCACCTTGGCCTCTGAAGGTGCGAGGATTATAGGCGTCACCTACCACATCCAGCCT 1441																	100	2 50"5.	JEZEZ	. <b>.</b>	3235	20	254
CTTGTGAGGAGACGGACTCTATGTTGCCCAGGCTGTTATGGAACTCCTGAGTCAAGTGAT 1381 CCTCCCACCTTGGCCTCTGAAGGTGCGAGGATTATAGGCGTCACCTACCACATCCAGCCT 1441																							
1381 CCTCCCACCTTGGCCTCTGAAGGTGCGAGGATTATAGGCGTCACCTACCACATCCAGCCT 1441	132	21																					
1381 CCTCCCACCTTGGCCTCTGAAGGTGCGAGGATTATAGGCGTCACCTACCACATCCAGCCT 1441		Chl.	GTG	AGG	AGA	CGG	ACTO	- CTA	ተ	ጥርር	CCA	GGC:	ىىڭىل	ኮል ጥና	IGA	ኒሮጥና	باملىمات	BAGS	ב יית	יים ע	יכ די	יחי	
1441	138																				<u> </u>		
1441		•			•			•							•								
ACA COMA DEPONDA A MAZIONA A CAMBA COA CITA A COA CITA	14		ccc	ACC	TTG	GCC	TCT	GAA	GGT	GCG.	AGG.	ATT.	ATA(	GGC	GTC2	ACC!	racc	CAC	ATC	CAG	CC	T	
		n/12	~~~	3 mm			m s m			m a ~	~ 7 ~		<b>~</b> ^ 1	000		300	<b>3</b> m/~~						

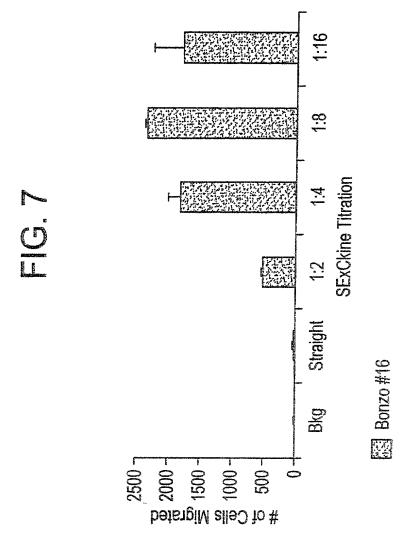
## FIG. 4C

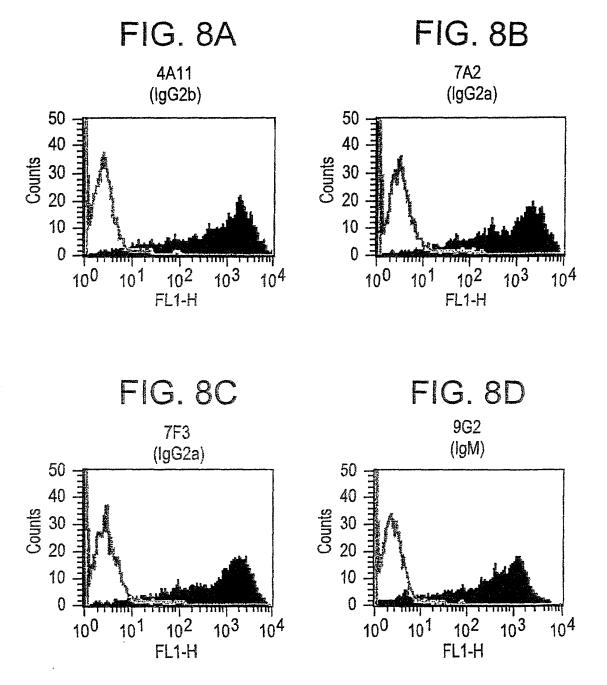
150	)1
15	CATTTAAAAACGGTTATACTATAAAATCTGCTTTTCACACTGGGTGATAATAACTTGGAC 561
16	AAATTCTATGTGTATTTTGTTTTGTTTTGCTTTGCTTTTGTTTTGAGACGGAGTCTCGCTC
16	TGTCATCCÁGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCCCCATCTCCCAG
17	GTTCAAGCGATTCTCCTGCCTCCTAAGTAGCTGGGACTACAGGTGCTCACCACCACA
18	CCCGGCTAATTTTTTGTATTTTAGTAGAGACGGGTTTCACCATGTTGACCAGGCTGGT
18	CTCGAACTCCTGACCTGGTGATCTGCCCACCCAGGCCTCCCAAAGTGCTGGGATTAAAGG
19	TGTGAGCCACCATGCCTGGCCCTATGTGTGTTTTTTAACTACTAAAAATTATTTTTGTAA
	. TGATTGAGTCTTCTTTATGGAAACAACTGGCCTCAGCCCTTGCGCCCTTACTGTGATTCC
1	.981
20	TGGCTTCATTTTTTGCTGATGGTTCCCCCTCGTCCCAAATCTCTCTC
20	· · · · · · · · · · · · · · · · · · ·
21	TGTTCCTCCCCACCTCAGCCCTCTCCTGCATCCTCCTGTACCCGCAACGAAGGCCTGGG
21	CTTTCCCACCCTCCTTAGCAGGTGCCGTGCTGGGACACCATACGGGTTGGTT
22	CTCCTCAGTCCCTTGCCTACCCCAGTGAGAGTCTGATCTTGTTTTTTTT
44	
22	TATTATTATTGCTTTTATTATCATTAAAACTCTAGTTCTTGTTTTGTCTCTCAAAAAAA
	A A A A A A A A A A A A A A A A A A A

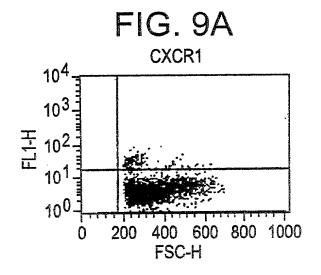
				aaataaatc	taaataaaca	421
caatctaact gtgaaagaaa cttctgatat ttgtgttatc cttatgattt	ttgtgtt	cttctgatat	gtgaaagaaa	caatctaact	tttccagttt	361
tagctactag ctgcctacgt gtgtgcattt gctatatagc atacttcttt	gctatat	gtgtgcattt	ctgcctacgt	tagctactag	tttggagagt	301
taa ttaagaaact	aagaaaataa	cccgctgtac	atttgcttgg acctgcaagc	atttgcttgg	tggaaggaaa	241
cccactgccc cactgcccaa ctgatagcca cgctgaagaa	ctgatag	cactgcccaa	cccactgccc	aaggccggac	ggaggtgatc	181
aca tcaccagcct	cccaggc	ccaggtccgt	ctgtgtgtga agaccacctc ccaggtccgt cccaggcaca	ctgtgtgtga	cctgcagtgc	121
aag aagatgggga	gaagctgaag	cgccagcgct	ctgccacttg tggtcgcctt	ctgccacttg	61 gttgctgctc	61
ageteegeag eegggttetg egeeteaege eeegggetge tgtteetggg	aaddaaa	cgcctcacgc	ccgggttctg	agctccgcag	ccgcagcatg	<del>, -</del> -1

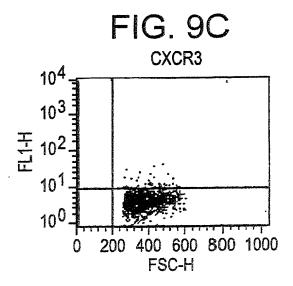
MSSAAGFCAS RPGLLFLGLL LLPLVVAFAS AEAEEDGDLQ CLCVKTTSQV RPRHITSLEV IKAGPHCPTA

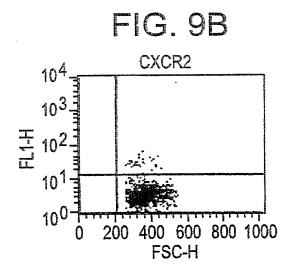
QLIATLKNGR KICLDLQAPL YKKIIKKLLE S











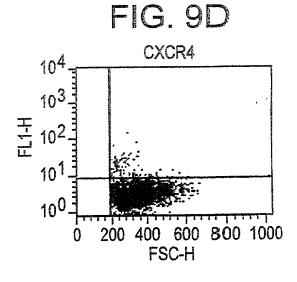


FIG. 9E

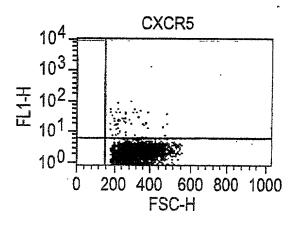


FIG. 9F

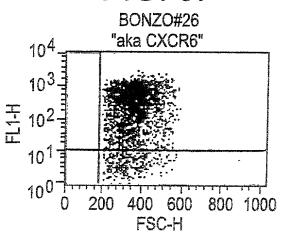
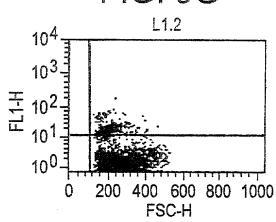
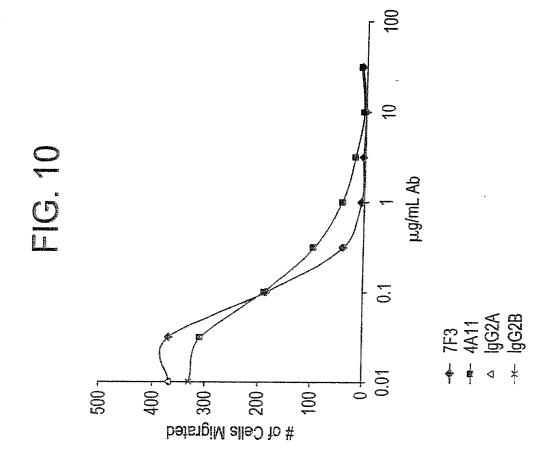


FIG. 9G





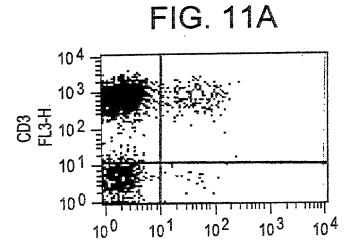


FIG. 11B

FL1-H

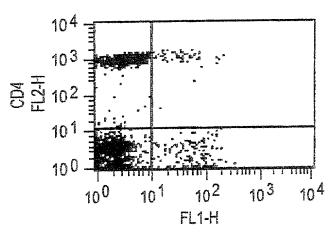
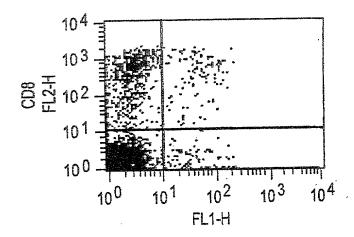


FIG. 11C



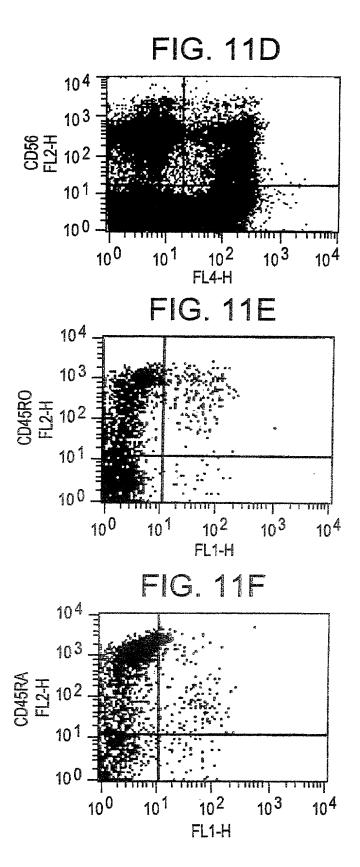


FIG. 11G

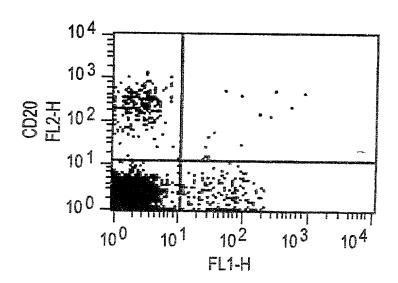
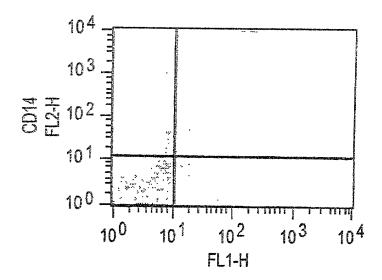
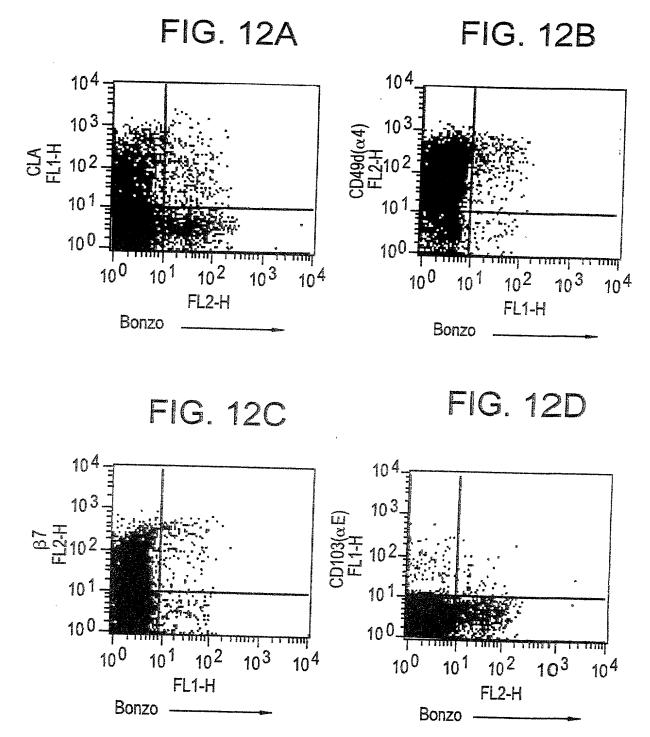
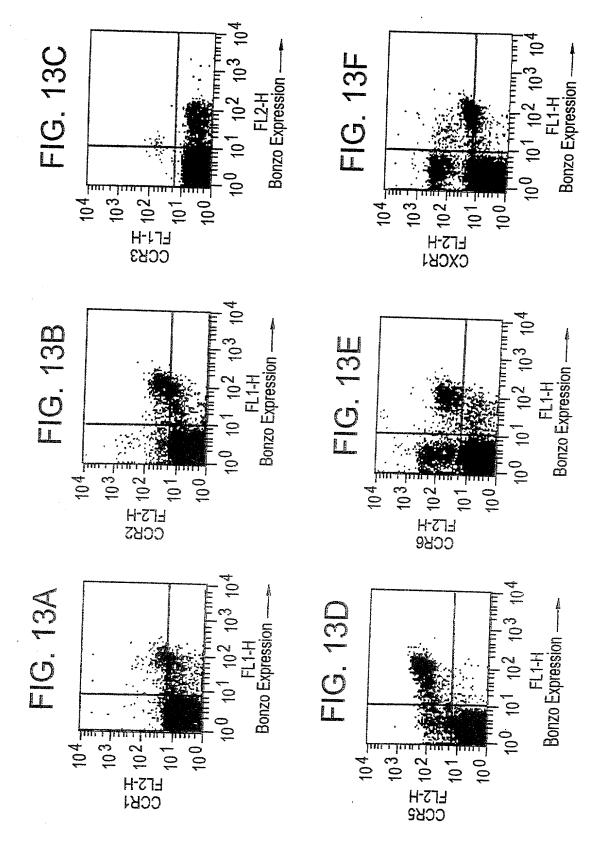
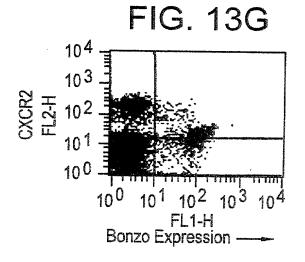


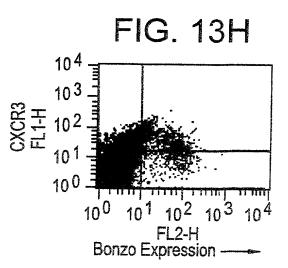
FIG. 11H

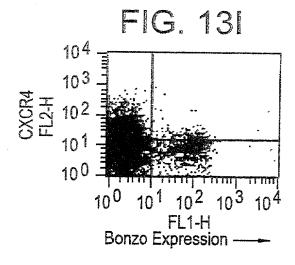


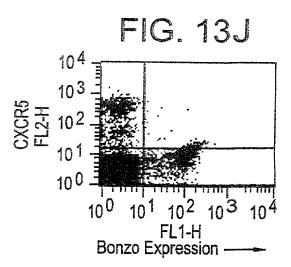


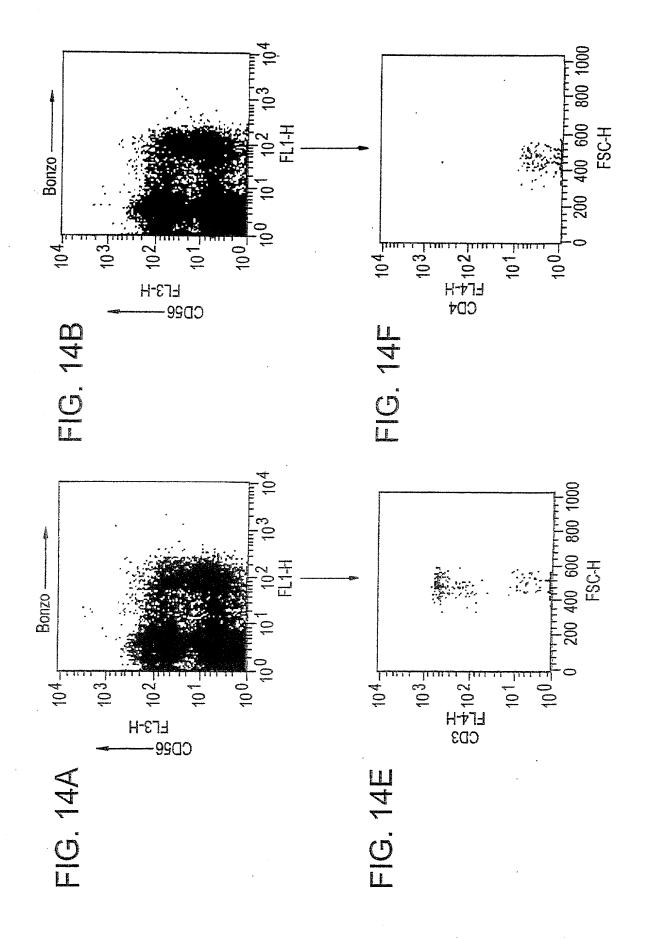


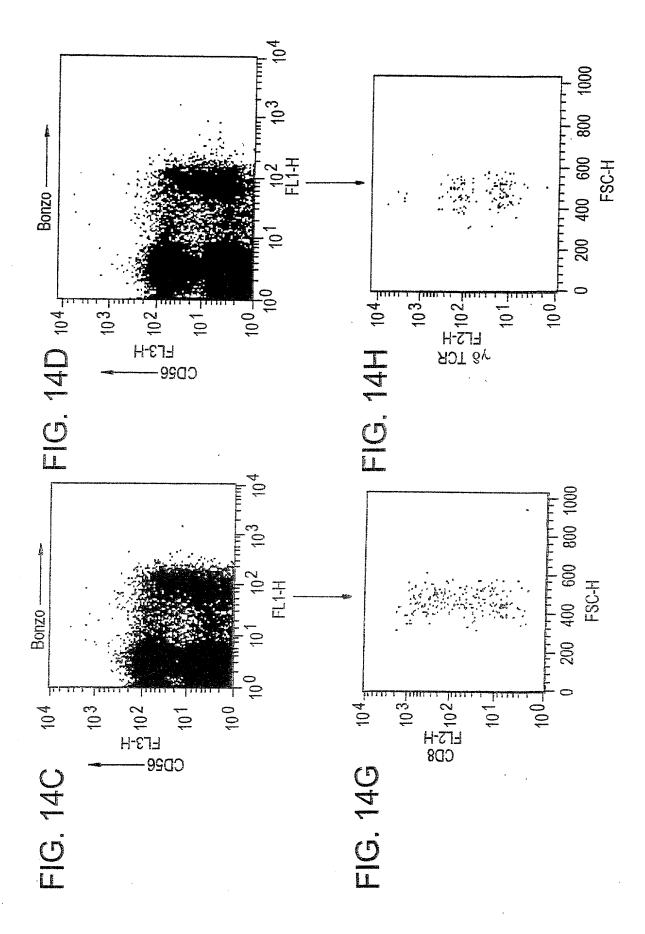


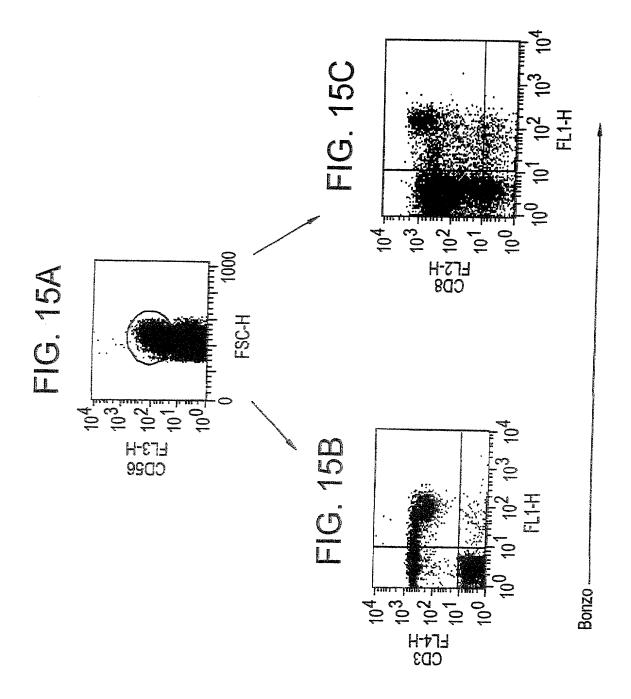












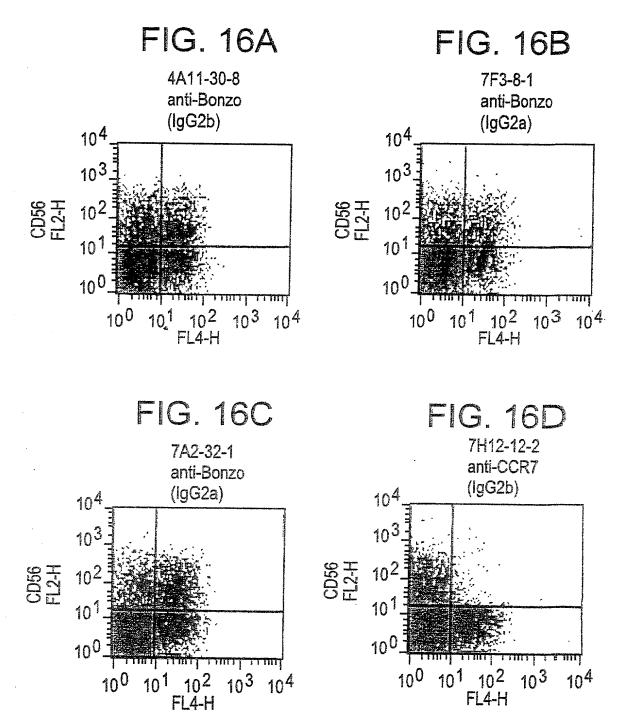


FIG. 17A

CD3 Blasts

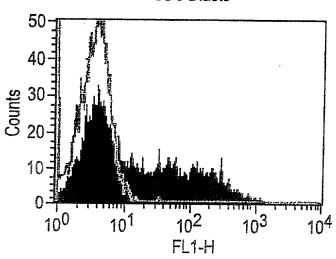


FIG. 17B

LAK Cells

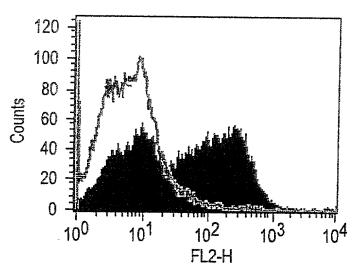
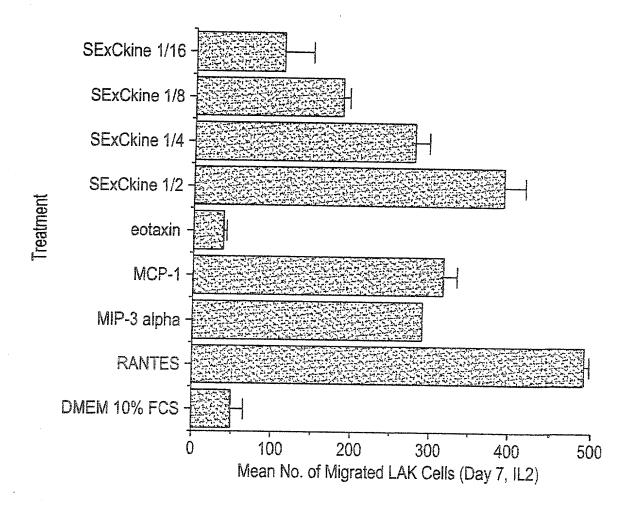
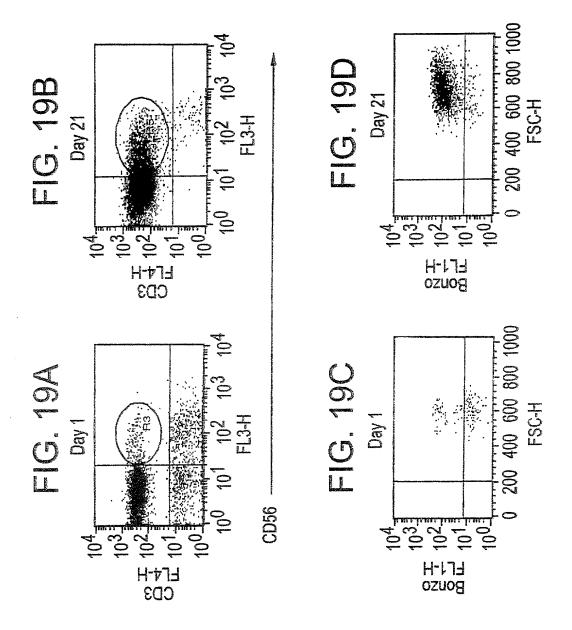
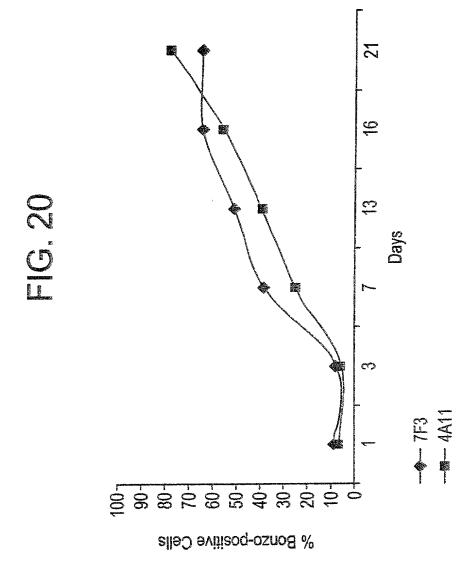
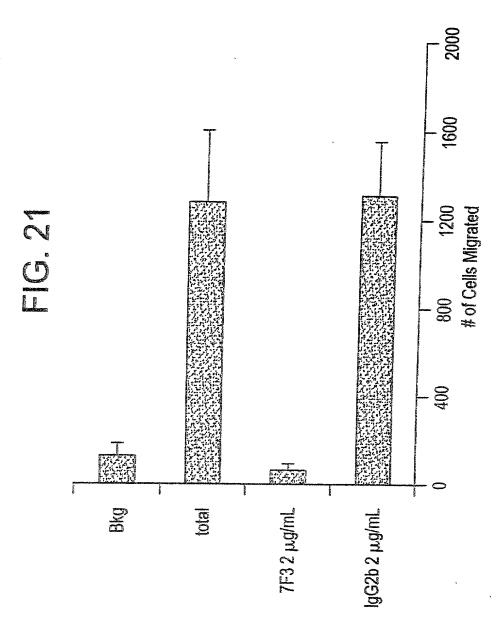


FIG. 18

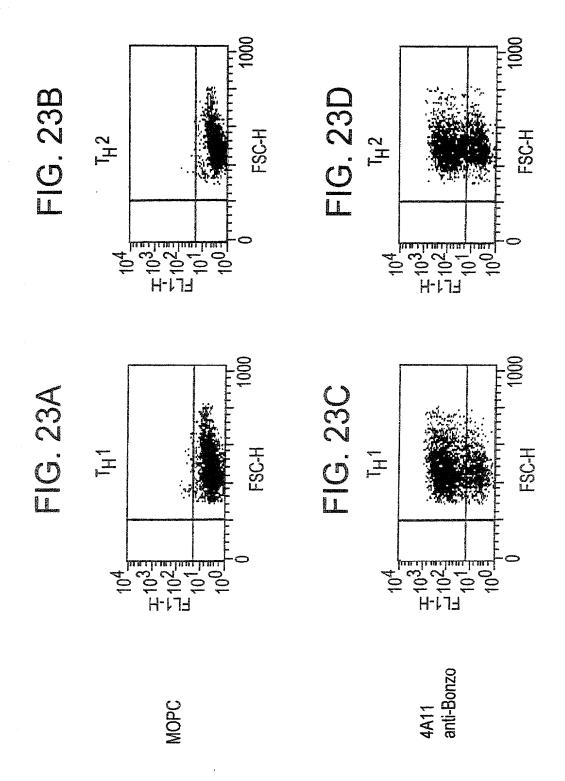


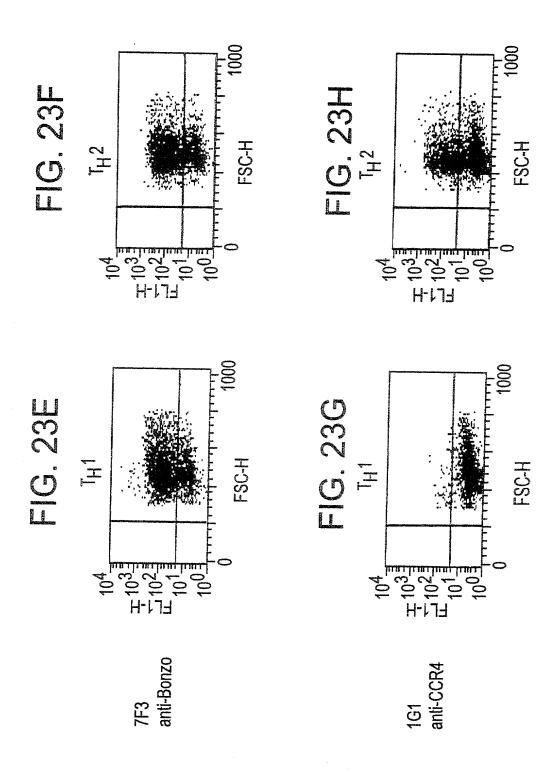


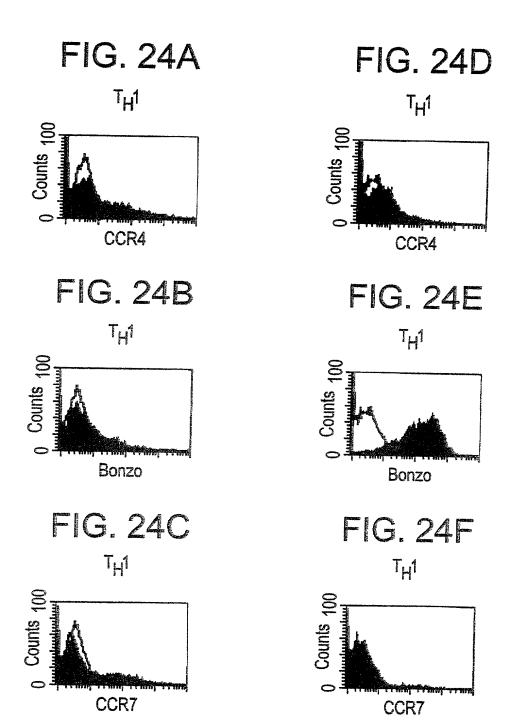


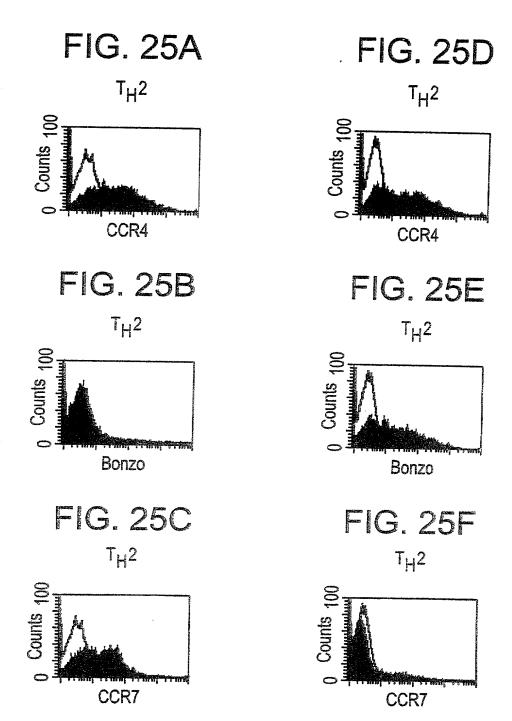


% Bonzo-positive Cells









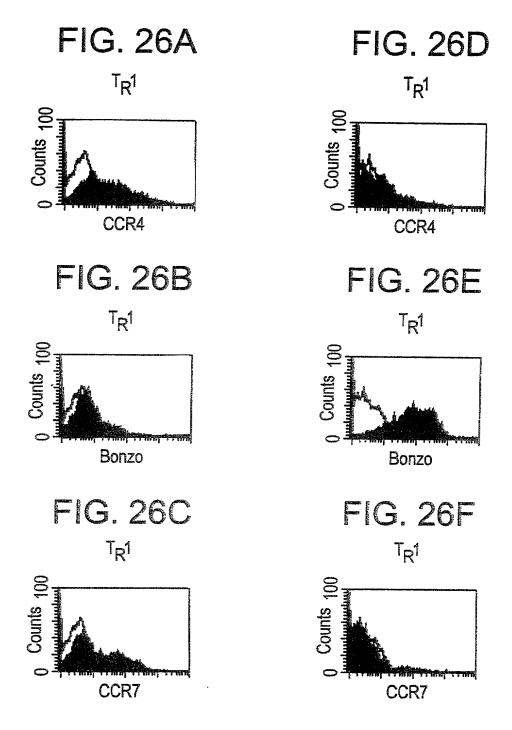
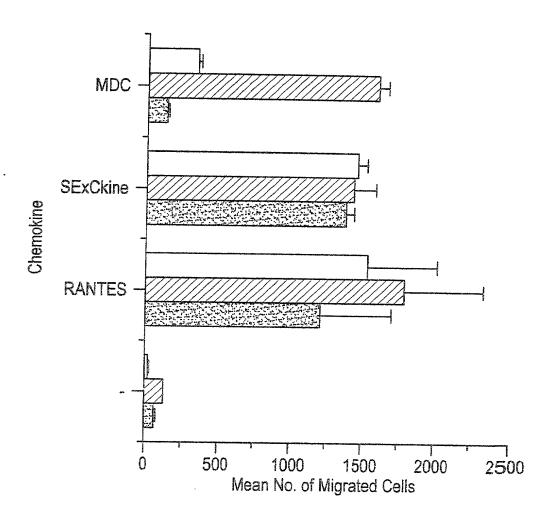


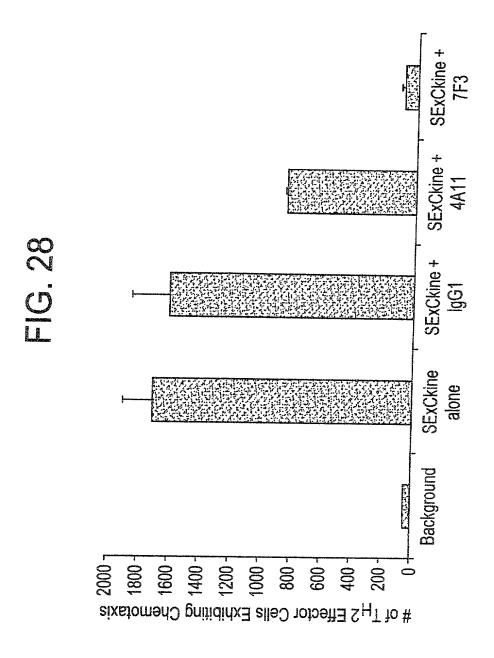
FIG. 27

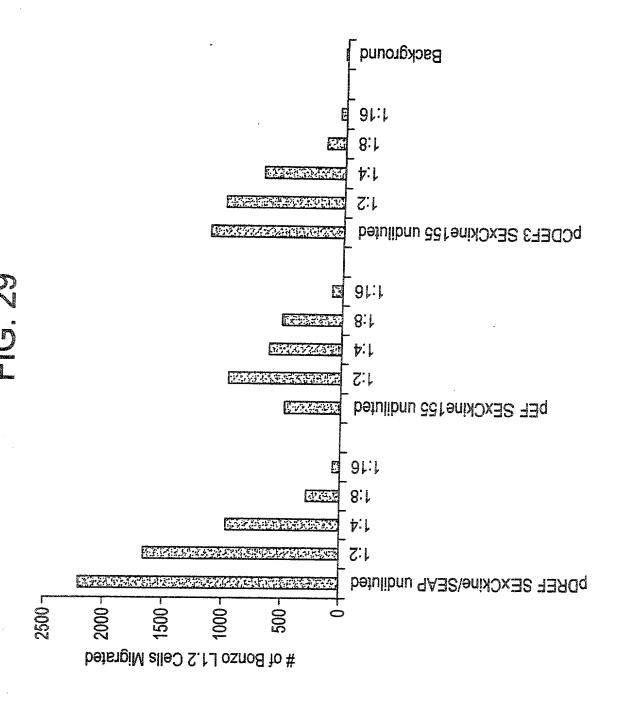


 $\Box$ TR1

⊠T<sub>H</sub>2

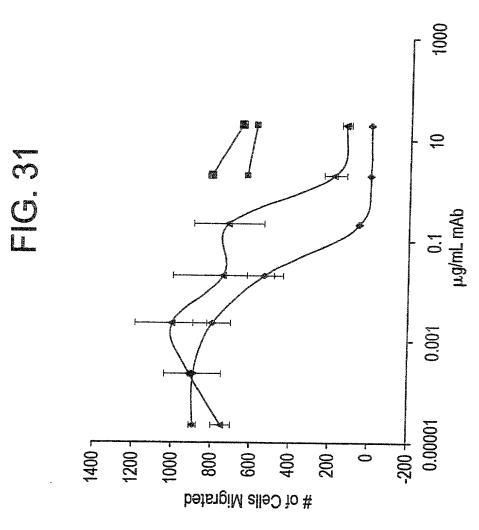
⊠T<sub>H</sub>1





Soluble SExCkine Potential Cleavage Sites Membrane bound SExCkine Cytoplasmic Tail Mucin Stalk Transmembrane region -N-terminal Chemokine Domain ———





-+- 7F3 -<del>--</del>- R&D -<del>--</del>- IgG2a -<del>---</del>- IgG2b

